

WYN ANDERSON

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WORK EXPERIENCE

Program Manager	MAGICALL, INC.	2021 - PRESENT
Electric Motor Avionics Software		
<ul style="list-style-type: none">• Provided leadership, direction, and project governance to a multidisciplinary team of 10+ engineers.• Owned and implemented company-wide, strategic certification and development planning for safety-critical avionics software.• Contributed to software architectural decisions that resulted in a 50% reduction in software response time.• Lead 20+ C and C++ code reviews adhering to the certification requirements of safety-critical software items. These reviews highlighted and addressed 8 potential risks, saving upwards of 6 months of development time.• Successfully managed compliance interactions of 300+ customer requirements, analyzing trade-offs of potential product solutions and their effects on the overall compliance snapshot.• Architected automated software testing procedures that will increase unit test coverage by 40% and reduce manual testing by 30 hours per regression analysis iteration.		

PROJECT EXPERIENCE

Homebase	Real Estate Trend Analysis	Github	VISIT
React, JavaScript, CSS, DeckGL, Zustand, Fuse, Mapbox, Vite			
<ul style="list-style-type: none">• Created a modern React application that implemented DeckGL and Mapbox's API to efficiently visualize large datasets while remaining performant.• Developed spatial join algorithms to merge Zillow's economic models with US Census data.• Optimized naive join algorithms to reduce time complexity, decreasing dataset load time from 60 seconds to 2 seconds.• Wrote custom hooks for data fetching which were merged with Zustand's state management to provide accurate loading indicators across the entire application.			
Spark	Financial Modeling CRUD Web App	Github	VISIT
React, JavaScript, Formik, Yup, Firebase, Vite			
<ul style="list-style-type: none">• Developed an intuitive React application that models future financial performance based on users' income, savings habits, and investments.• Designed an efficient, additive array algorithm to accurately combine multiple assets' effects on a user's portfolio.• Validated user input with Formik and Yup, ensuring the correctness of the model while maintaining the responsiveness of the user input controls.• Implemented an asset management module used to create, read, update, and delete assets from a Firestore database.			

EDUCATION

California Polytechnic State University, San Luis Obispo (Cal Poly)	2021
Bachelors of Science, Aerospace Engineering	

TECHNOLOGIES

React, JavaScript, Next.js, Firebase, Vite, Redux, HTML 5, CSS 3, Figma, Node, Express, Figma, Photoshop, Matlab